

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. **(Currently Amended)** A method ~~of managing for management~~ of a trunk line between a first an asynchronous mobile switching center of a first mobile communication system and a synchronous second mobile switching center of a second mobile communication system for handover of a ~~dual-band dual-mode~~ mobile communication terminal capable of communicating with both the first an asynchronous mobile communication system and the second a synchronous mobile communication system, the method comprising ~~the steps of:~~

checking a status of the trunk line between the ~~asynchronous first~~ mobile switching center and the synchronous second mobile switching center by ~~exchanging transmitting/receiving at least one of~~ trunk line management messages between the first asynchronous mobile switching center and the second synchronous mobile switching center, when the first asynchronous mobile switching center and the second synchronous mobile switching center are in an invoke state for the handover, the trunk line management messages including at least one of a circuit reset message, a circuit interruption release message ~~[[and]], or~~ a trunk line test message.

2. **(Canceled)**

3. **(Currently Amended)** The method as claimed in claim 1, wherein the exchanging the asynchronous mobile switching center transmits a trunk line management messages further comprises receiving to the synchronous mobile switching center and then receives a response message transmitted from the first mobile switching center to the second mobile switching center or from the second mobile switching center to the first mobile switching center ~~for the trunk line management message or the synchronous mobile switching center transmits the trunk line~~

management message to the asynchronous mobile switching center and then receives the response message for the trunk line management message.

4. (Currently Amended) The method as claimed in claim 1, wherein the trunk line messages comprise at least a circuit reset message, the circuit reset message is transmitted/received between transmitted from the first asynchronous mobile switching center [[and]]to the second synchronous mobile switching center or from the second mobile switching center to the first mobile switching center when it is necessary to use the[a] trunk line between the first asynchronous mobile switching center and the second synchronous mobile switching center or in order to reproduce status information of a damaged circuit and reset the damaged circuit.

5. (Original) The method as claimed in claim 3, wherein the circuit reset message includes a parameter (InterMSCCircuitID) of the internal switching center circuit ID and the response message includes a parameter (TrunkState) of the status information of the trunk line.

6-7. (Canceled)

8. (Currently Amended) The method as claimed in claim 1, wherein the trunk line management messages further comprise a circuit interruption release message, and the trunk line is reactivated by the circuit interruption release message when the circuit interruption release message has been transmitted/received between transmitted from the asynchronous first mobile switching center ~~transmitted from the asynchronous first mobile switching center~~ to the synchronous second mobile switching center or from the second mobile switching center to the first mobile switching center.

9. **(Currently Amended)** The method as claimed in claim 1, wherein the trunk line test message is ~~transmitted/received between-transmitted from~~ the asynchronous-first mobile switching center ~~[[and]]to the synchronous-second mobile switching center or from the second~~ mobile switching center to the first mobile switching center in order to determine if the trunk line between the asynchronous-first mobile switching center and the synchronous-second mobile switching center exactly operates without errors.

10. (Original) The method as claimed in claim 1, wherein the trunk line test message includes parameters of an internal switching center circuit ID (InterMSCCircuitID) and a seizure type (SeizureType).

11. **(Currently Amended)** The method as claimed in claim 1, wherein the trunk line management messages further comprise a trunk line test release message for completing[[and]] a test of the trunk line is ~~completed when the trunk line test release message is transmitted/received between the asynchronous mobile switching center and the synchronous mobile switching center.~~

12. **(Currently Amended)** A method of managing for management of a trunk line between an asynchronous-first mobile switching center of a first communication system and a second synchronous mobile switching center of a second mobile communication system for handover of a ~~dual-band dual-mode~~ mobile communication terminal capable of communicating with both ~~an asynchronous~~ the first mobile communication system and ~~a synchronous~~ the second mobile communication system, the method comprising ~~the steps of:~~

checking a status of the trunk line between the asynchronous-first mobile switching center and the synchronous-second mobile switching center by exchanging transmitting/receiving at least one of trunk line management messages through an interworking interoperability function unit between the asynchronous-first mobile switching center and the synchronous-second mobile switching center, the first asynchronous mobile switching center and the synchronous-second

mobile switching center being connected to the interworking interoperability function unit, the trunk line management messages including at least one of a circuit reset message, a circuit interruption release message ~~[[and]],~~ or a trunk line test message.

13. **(Currently Amended)** The method as claimed in claim 12, wherein the first asynchronous-mobile switching center and the interworking interoperability function unit exchanges the trunk line management messages based on an ISUP protocol and the ~~asynchronous~~ first mobile switching center and the interworking interoperability function unit exchanges the trunk line management messages based on a MAP protocol, in order to check the status of the trunk line ~~between the asynchronous mobile switching center and the synchronous mobile switching center.~~

14. **(Canceled)**

15. **(Currently Amended)** The method as claimed in claim 12, wherein the ~~exchanging the asynchronous mobile switching center transmits a~~ trunk line management messages ~~further comprises receiving to the synchronous mobile switching center through the interworking interoperability function unit and then receives a response message for the trunk line management message, or the synchronous mobile switching center transmits the trunk line management message to the asynchronous mobile switching center~~ from the first mobile switching center or the second mobile switching center and through the interworking interoperability function unit and then receives the response message for the trunk line management message.

16. **(Currently Amended)** The method as claimed in claim 12, wherein the trunk line messages comprise at least a circuit reset message, the circuit reset message is transmitted/received between ~~transmitted from the asynchronous~~ first mobile switching center

and the ~~synchronous-second~~ mobile switching center or from the second mobile switching center to the first switching center when it is necessary to use a trunk line between the ~~asynchronous~~ first mobile switching center and the ~~synchronous-second~~ mobile switching center or in order to reproduce status information of a damaged circuit and reset the damaged circuit.

17. (Original) The method as claimed in claim 16, wherein the circuit reset message includes a parameter (InterMSCCircuitID) of the internal switching center circuit ID and the response message includes a parameter (TrunkState) of the status information of the trunk line.

18-19. (Canceled)

20. (Currently Amended) The method as claimed in claim 12, wherein the trunk line ~~management messages further comprise a circuit interruption release message, and the trunk line~~ is reactivated by the circuit interruption release message when the circuit interruption release message has been ~~transmitted/received between~~ transmitted from the asynchronous-first mobile switching center [[and]] to the synchronous-second mobile switching center or from the second mobile switching center to the first mobile switching center.

21. (Currently Amended) The method as claimed in claim 12, wherein the trunk line test message is ~~transmitted/received between~~ transmitted from the asynchronous-first mobile switching center [[and]] to the synchronous-second mobile switching center or from the second mobile switching center to the first switching center in order to determine if the trunk line between the ~~asynchronous-first~~ mobile switching center and the ~~synchronous-second~~ mobile switching center exactly operates without errors.

22. (Original) The method as claimed in claim 12, wherein the trunk line test message includes parameters of an internal switching center circuit ID (InterMSCCircuitID) and a seizure type (SeizureType).

23. (Currently Amended) A system ~~of managing for management~~ of a trunk line between an ~~asynchronous-first~~ mobile switching center and a ~~synchronous-second~~ mobile switching center for handover of a ~~dual-band dual-mode~~ mobile communication terminal in a hybrid mobile communication system including both an ~~asynchronous-a first~~ network and a ~~synchronous-second~~ network, the system comprising:

the ~~asynchronous-first~~ mobile switching center ~~is configured to transmit for transmitting-a first~~ trunk line management message to the ~~synchronous-second~~ mobile switching center and ~~receiving-to receive a first~~ response message from the ~~synchronous-second~~ mobile switching center, thereby confirming the status of the trunk line; and

the ~~synchronous-second~~ mobile switching center ~~is configured to transmit for transmitting~~ a ~~second~~ trunk line management message to the ~~first synchronous~~-mobile switching center and ~~to receive receiving-a second~~ response message from the ~~synchronous-first~~ mobile switching center, thereby confirming the status of the trunk line.

24. (Currently Amended) The system as claimed in claim 23, wherein the ~~first or second~~ trunk line management message comprises at least one of a circuit reset message, a circuit interruption ~~release message, or~~ [[and]] a trunk line test message.

25. (Currently Amended) The system as claimed in claim 24, wherein the circuit reset message is used when it is necessary to use the trunk line between the ~~asynchronous-first~~ mobile switching center and the ~~synchronous-second~~ mobile switching center or in order to reproduce status information of a damaged circuit and reset the damaged circuit.

26. (Original) The system as claimed in claim 24, wherein the circuit reset message includes a parameter (InterMSCCircuitID) of the internal switching center circuit ID and the response message includes a parameter (TrunkState) of the status information of the trunk line.

27-28. (Canceled)

29. (Currently Amended) The system as claimed in claim 24, wherein the trunk line management messages further comprise a circuit interruption release message, and the trunk line is reactivated by the circuit interruption release message when the circuit interruption release message has been ~~transmitted/received between~~ transmitted from the asynchronous-first mobile switching center [[and]] to the synchronous-second mobile switching center or from the second mobile switching center to the first switching center.

30. (Currently Amended) The system as claimed in claim 24, wherein the trunk line test message is ~~transmitted/received between~~ transmitted from the asynchronous-first mobile switching center [[and]] to the synchronous-second mobile switching center or from the second mobile switching center to the first switching center in order to determine if the trunk line between the first asynchronous-mobile switching center and the second synchronous-mobile switching center exactly operates without errors.

31. (Original) The system as claimed in claim 24, wherein the trunk line test message includes parameters of an internal switching center circuit ID (InterMSCCircuitID) and a seizure type (SeizureType).

32. **(Currently Amended)** The system as claimed in claim 23, further comprising an interworking interoperability function unit which is configured to receive ~~receives~~ the first trunk line management message based on an ISUP protocol from the ~~asynchronous-first~~ mobile switching center and then to transmit ~~transmits~~ the first trunk line management message based on an MAP protocol to the ~~synchronous-second~~ mobile switching center, and to receive ~~receives~~ the second trunk line management message based on an MAP protocol from the ~~synchronous-second~~ mobile switching center and then to transmit ~~transmits~~ the second trunk line management message based on an ISUP protocol to the ~~asynchronous-first~~ mobile switching center.